



Motorized Paperless Single screen Interactive Monitor Lift with Microphone



TS-F215MT3

Before using the system, please read the user manual

Document description

Before using this product, please read this manual carefully and keep it for future reference. Read the safety operation guide carefully. Note: Danger! Pay attention to reminder symbol.

This manual is only for user operation instructions, not for maintenance service purposes. The deadline for the described functions is December 30, 2021. If the functions or related parameters change after this date, supplementary explanations will be made without notice. For details, please contact the dealers.

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The product pictures in this manual are for reference only, please refer to the actual product.

Motorized Paperless Interactive Monitor Flipper

Operation Guide

In order to ensure the reliable use of the equipment and the safety of personnel, please observe the following items during installation, use and maintenance:

- There are live parts in the equipment. Non-professionals should not disassemble the equipment without permission to avoid the risk of electric shock.
- Do not disassemble the device when it is powered on or running to avoid the risk of electric shock.
- Do not operate with wet hands to prevent electric shock.
- It is strictly forbidden to use the product in an environment with flammable materials, explosive gases or heat sources.
- It is strictly prohibited to spill any corrosive chemicals or liquids on or near the equipment.

- Do not block the heat dissipation holes, and keep the working environment well ventilated, so that the heat generated by the device during work can be discharged in time, so as to avoid excessive temperature and damage to the device.
- Do not place the device on an unstable surface to avoid damage caused by the device falling.
- In order to avoid the equipment from being damaged by strong vibration during transportation, it is recommended to use proper packaging or use the original packaging during transportation.
- Do not squeeze the power cord and device with heavy objects.
- The equipment must use a grounded power supply.
- Do not repair it privately, so as not to aggravate the damage to the equipment.
- When moving the device, be careful not to drop the device to avoid personal injury or equipment damage.
- Turn off the main power supply of the equipment when it is in a humid environment or not in use for a long time.
- The equipment shall be used after being stored for a long time and must be inspected and trial run before use.
- Before cleaning the equipment, the equipment must be powered off and clean the equipment with a dry cloth.
- Discarded equipment should be treated as industrial waste, and incineration is strictly prohibited.

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1. Description

An integrated elevator for combining a computer monitor on a conference table with a conference microphone. This new product is more practical for paperless conference equipment, with LCD touch display terminals and conference microphones as the center, integrating HD video and unified communication. Function, intelligent multi-screen interactive sharing function, intelligent conference control, audio and video collection and sound reinforcement system, etc., form a "people-oriented" intelligent meeting experience. Can be controlled by panel button, IR remote control, RS232 command control, RS485 command control.

When you need to use it, just press the up button on the panel, the display and the microphone have a separate control system, you can choose according to your needs, the start button hides the elevator in the conference table and automatically raises the display and microphone from the chassis to the desktop. Rise at a certain angle (if the angle is not suitable, you can adjust the appropriate angle by manual button). When the display and microphone are not used, press the down button to automatically lower the display and microphone to hide inside the conference, and automatically close the valve and the desktop to keep it flat. The LCD will automatically disconnect the power, thus achieving efficient meeting, beautiful desktop and atmosphere. For the purpose of saving space, it is very convenient to use, with anti-theft, dustproof, beautifying the desktop and other functions.

2. Feature

1. The microphone lift has an automatic straightening function. When the straw is bent, the machine can automatically straighten the straw without damaging the straw.
2. The screen and the microphone have a separate lift system, and both can be lifted according to demand.
3. The equipment adopts all-aluminum structure, high-quality aluminum material plus CNC precision processing, the display frame is a whole aluminum alloy, and the whole CNC is formed at one time, and the thinness is not more than 4 mm. The cabinet is made of aluminum alloy, which makes the whole equipment delicate, light, beautiful and elegant.
4. The surface treatment is anodized. The color is bright. Sandblasting, drawing and other processes can be used. And it can also be customized in various colors.
5. With the panel thickness of only 3mm, width of only 70mm, small footprint, it is light compared with traditional lifters. The weight is only one-third of the conventional lifter, which reduces transportation cost and the table pressure.

6. The transmission structure is specially treated to reduce noise.
7. High-definition screen is a well-known brand in China. It adopts Standard-A display screen with high resolution, bright and transparent color. Resolution is 1920*1080P. Aspect ratio is 16:9.
8. It is matched with high-precision guide rail and linear bearing, and the AC reducer motor is used as the driving power;
9. After rising, the screen automatically powers up, after falling, the screen automatically cuts off power for environmental protection.
10. The main screen and the secondary screen support both HDMI and VGA signal input. When there is only one signal input, the screen will automatically recognize the signal. When two signals are input at the same time, it can be manually switched through the panel buttons. When there is no signal input, the screen will automatically enter power saving mode.
11. Through central control software and host, all monitors in a meeting room can be centrally controlled to lift with one button.
12. With USB port on the desktop panel, the user can read or upload files by U disk.

3. Specification

Model	TS-F215MT3
Touch screen	Support touch
Lift time	36S
Elevation angle	0-30°, fully in line with ergonomic principles, without blocking the sight and face
Product Size	700X77X720mm
Panel size	700X77X3mm
Cabinet size	685X66X717mm
Desktop opening size	687X68mm (recommended to open hole according to the actual product)
Panel sink size	701X78X3mm(longXwidthXThick) (recommended to open hole according to the actual product)
Environmental conditions	-20°C ~ 50°C, relative humidity≤70%
Screen size	21.5"
Screen ratio	16:9
Screen Resolution	1920*1080
Video interface	VGA, HDMI
Backlight type	WLED, 15K hours, with LED driver
Contrast	1000:1(Typ.) (transmission)
Brightness	250(Min.)
Viewing angle	85/85/80/80 (Typ.)(CR≥10)
Power supply	AC 220-240V 50-60Hz
Microphone specification	
Microphone type	Cardioid directional electret
Frequency response	80Hz-16KHz
Microphone input impedance	1KΩ
Sensitivity	-46dBV/Pa
Maximum SPL	125dB (A)
SNR	>80dB
THD	<0.1%
Power consumption	3W

4. Packing list

Serial number	Accessory name	User manual
1	Lifting machine	1
2	Power cable	1
3	Touch data line	1
4	User manual	1
5	Data USB cable	1
6	Serial line	1

This machine is strictly packaged before leaving the factory. Please confirm whether the ordered products and accessories are damaged, deformed or missing. If it is damaged, inconsistent or missing, please contact us.

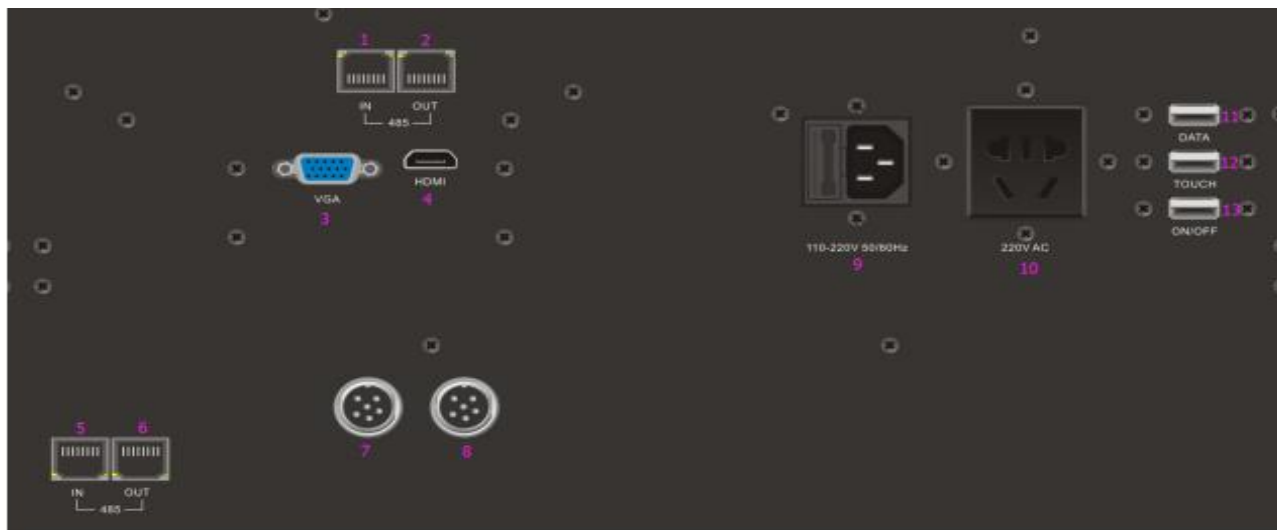
5. Appearance structure description

5.1 Front panel function



Serial NO.	Name	Description
1	USB interface	Read data
2	Lift up key	Control screen rising function (adjustable tilt angle 0-30°)
3	Lift pause button	Can pause the screen up or down function at any time
4	Lift down button	Control screen descending function (adjustable tilt angle 30-0°)
5	Signal switch button	If access to VGA and HDMI signals at the same time, the VGA signal and HDMI signal can be switched
6	Computer host switch button	Control the switch function of the host computer
7	Microphone lift hole	When the microphone rises, the dome cover will open, and the dome cover will close when the microphone is lowered.
8	Microphone up key	Press the microphone up button, the microphone rod will rise from the inside of the cabinet to a suitable position
9	Microphone rod pause button	Press the microphone pause button to pause the up or down of the rod
10	Microphone down button	Press the microphone up button, the microphone rod will drop from the panel to the inside of the case
11	Microphone enable button	When you need to speak, press the enable button to realize the speech function, and then press to turn off the microphone after speaking

5.2 Rear panel function

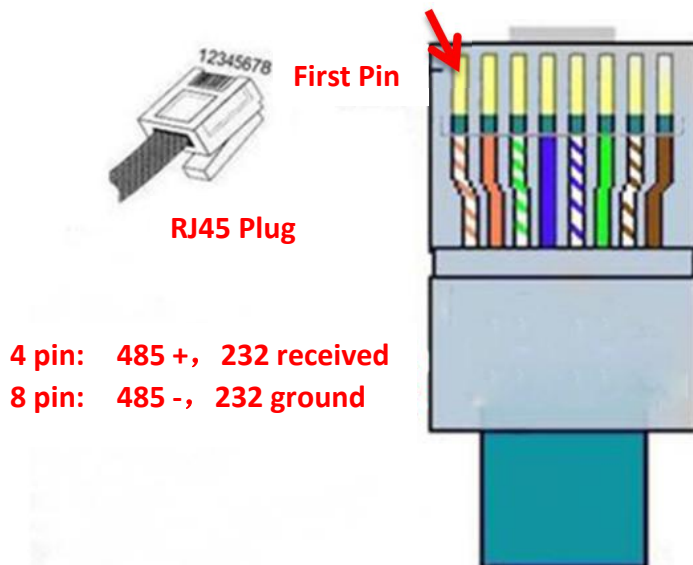


No	Name	Description
1	Display control 485 input port	Used for display lifting central control 485 network input interface
2	Display control 485 output port	Used for display lifting central control 485 network output interface
3	Main screen VGA signal interface	Use for the main screen VGA video signal input interface
4	Main screen HDMI signal interface	Use for the main screen VGA video signal output interface
5	Microphone lift central control 485 input port	For microphone lifting control 485 network input interface
6	Microphone lift central control 485 output port	For microphone lifting control 485 network output interface
7	Microphone signal input interface	Use for microphone signal input interface
8	Microphone signal output interface	Use for microphone signal input interface
9	Power input interface	Use for power input interface
10	Power output interface	Use for power output interface
11	Data transfer USB interface	Used tor connect USB data transmission interface
12	Touch line USB interface	Use to touch function interface
13	Switching machine USB control interface	Used to control the host switch interface

1. The board inserted on the rear panel is for reference only;
2. Product pictures are for reference only, please refer to the actual product.

6. Central Control Protocol Control Code

(1) It adopts 232 and 485 protocol control. There are two RJ45 network jacks at the bottom of the device, and multiple sets of common network cables adopts hand-in-hand serial connection. network cable and device protocol connection as shown below:



Baud rate: 2400

Parity check: N

Data bits: 8

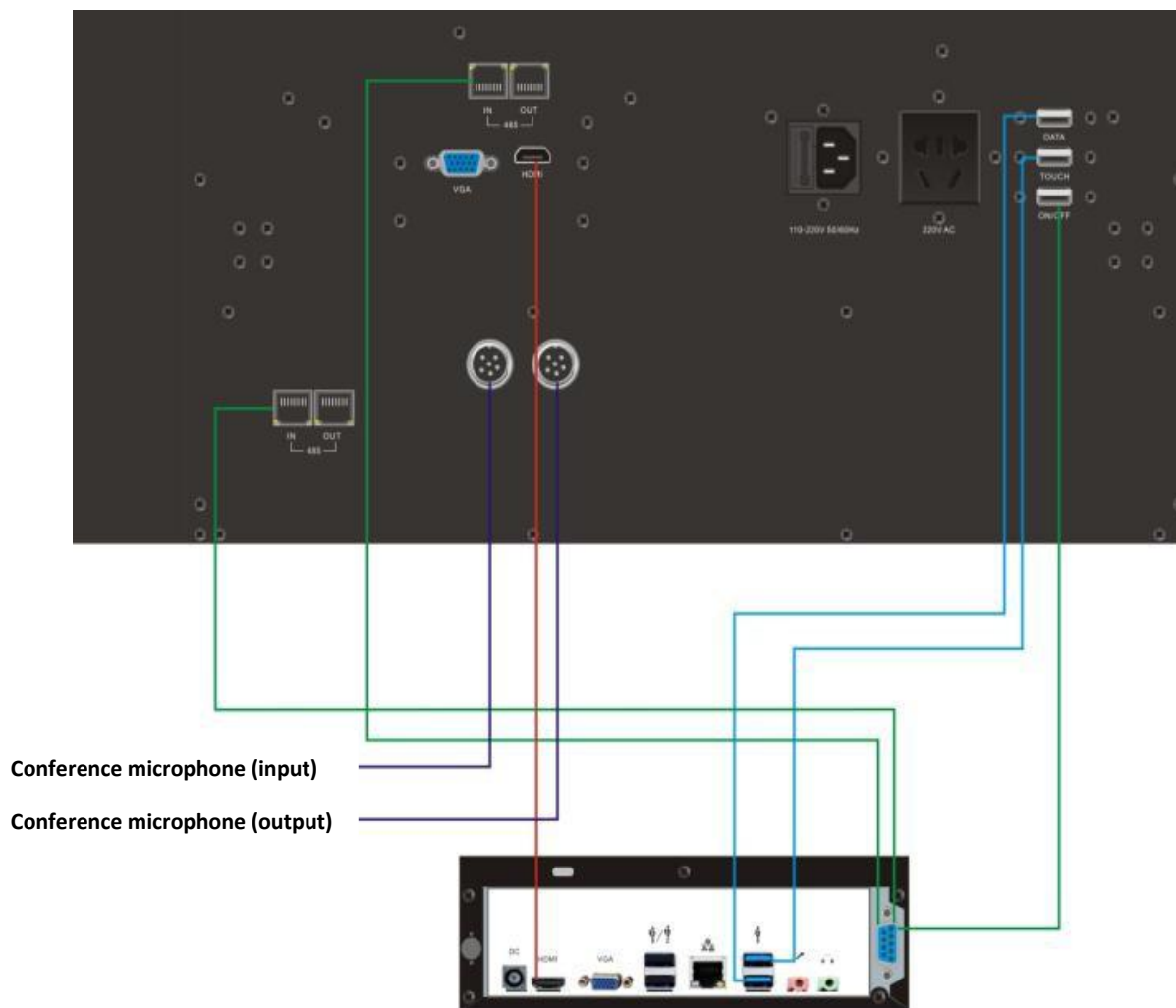
Stop bit: 1

Up code: FF EE EE EE DD

Down code: FF EE EE EE EE

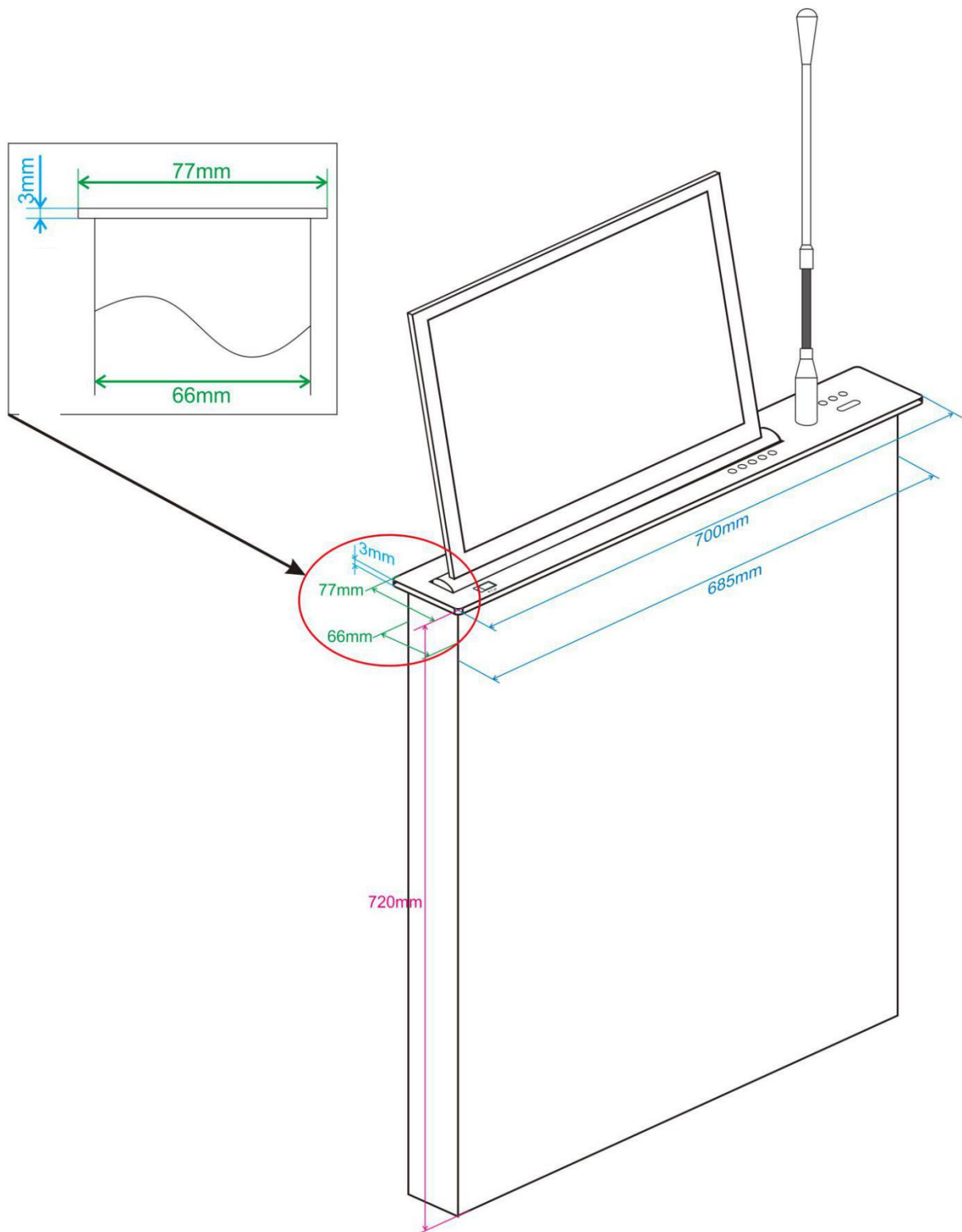
Stop code: FF EE EE EE CC

7. Machine connection diagram



8. Installation size (product size drawing)

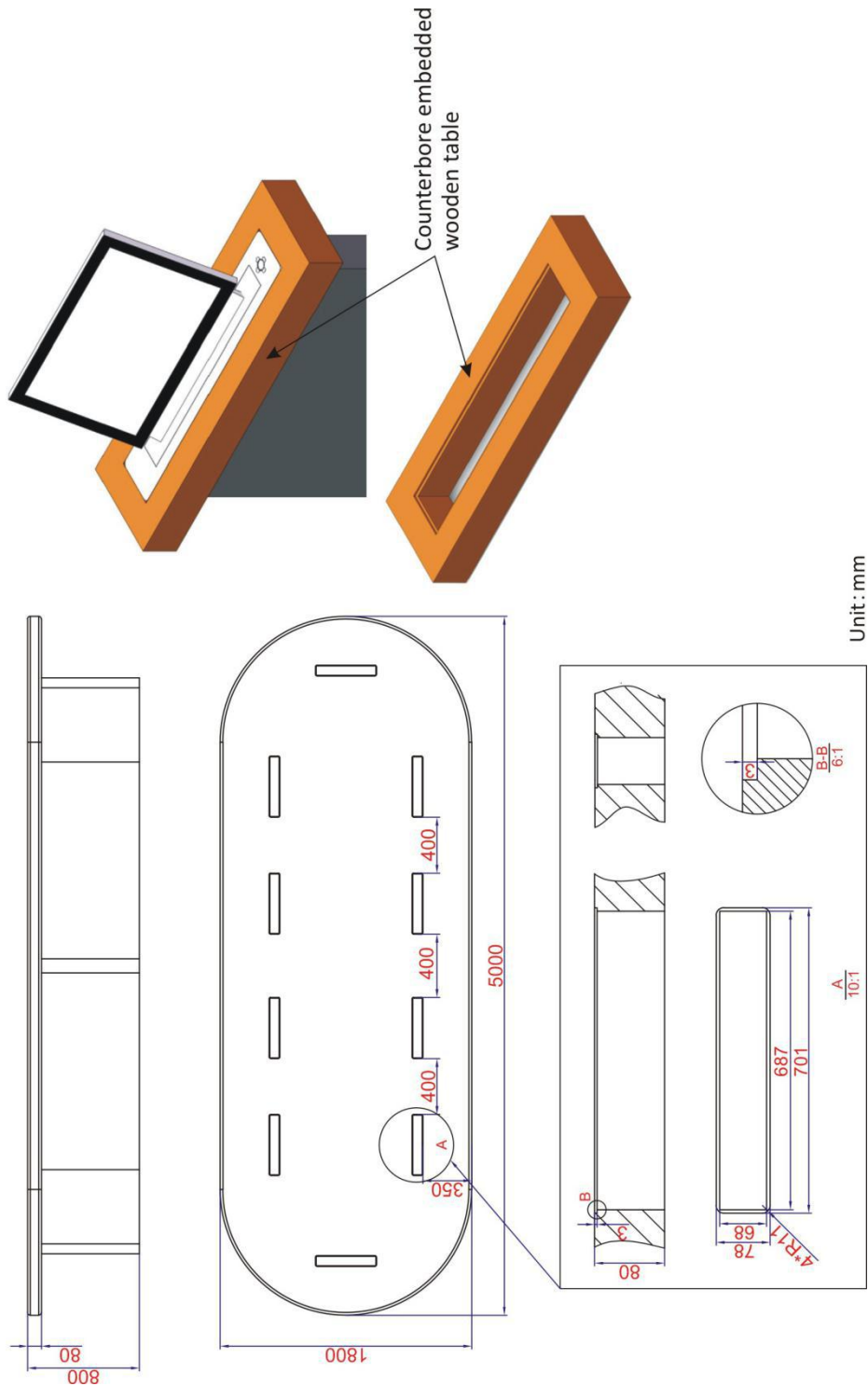
TS-F215MT3 ultra thin 21.5Inch lift



Note: Before installation, please remove the two 'transport fixing screws' on the cover, and the side display fixing clips and clean the foam filling inside the flip door.

9. Installation size (meeting table opening size diagram)

TS-F215MT3 ultra-thin 21.5 inch lift



Taking a 5m×1.8m×0.8m conference table as an example, the distance between the elevators is 0.4m, and it is appropriate to have a distance of 0.35m from the edge of the conference table. The user can adjust the size according to the actual needs. For the installation hole of the elevator, please mark the opening according to the drawing.

10. Common faults and maintenance

Fault phenomenon	Cause Analysis	Elimination method
The operation button does not respond and the screen does not rise.	Disconnected to the power supply	Check the power and make sure it is on
	Poor power input	Check the power interface and make sure it is in good contact. Switch to another power input.
No corresponding image outputs when the signal is switched	Signal source or terminal display is not turned on	Check and make sure the source and terminal display are on
	Loose contact of video signal port	Check and make sure the corresponding video signal port is connected properly
After the signal is switched, the display shows a black screen	Display does not support source resolution	Switch to a new source or set to automatically adapt to display resolution
Output image is disturbed	Loose contact between input and output devices	Connect the device properly and make it in good contact
	Input and output connection wire quality is not up to standard or damaged	Replace regular standard wire
	The wire is too long	Replace high-quality wire that supports the transmission range of the system
Panel touch has obvious static electricity	The device is not well grounded	Ground the grounding terminal of the machine well
Unable to control the unit or remote by serial command	Loose contact of the control port	Check the communication serial port to make sure it is in good contact
	The communication protocol is not set	Set the local or remote communication protocol as needed
The network port cannot control the machine	The control device network segment is inconsistent with the local matrix controller network segment.	Change the control device network segment to be consistent with the matrix controller
	The matrix controller network segment is inconsistent with the connected LAN segment.	Change the matrix controller network segment to be consistent with the LAN segment.
Not available	Internal damage to the controller	Send it to professional maintenance point

11. After-sales service

(1) During the warranty period of the product, if there are abnormal conditions under normal use, our company will repair without pay due to the failure caused by the quality of the product itself.

(2) Our company provides three-year warranty service for this product, the warranty period start date:

- ✓ Manufacture date;
- ✓ The above date cannot be obtained, and the manufacture date in the company's SN code shall prevail.

(3) In any following conditions, no warranty service is provided and the cost of repair parts is reasonably charged:

- ✓ Damage caused by improper use, storage and maintenance by consumers;
- ✓ Man-made damage to appearance and components;
- ✓ Damage caused by changes to the configuration or the product without the authorization of the company;
- ✓ Damage caused by force majeure.

(4) In any following circumstances, our company has the right to refuse to provide repair services. Or The company provide fee-based repair services ;

- ✓ Damage to the fragile label (except for our company's authorization): the product label content is altered or obscured, and cannot be identified;
- ✓ Damage caused by unauthorized installation and disassembly of our company;
- ✓ No sales voucher. Or sales voucher does not match the repair product model;
- ✓ Not products that our company produces and sells .

(5) You can contact us directly by the company's after-sales service department by letter or telephone, please inform us of the following:

- ✓ The model and name of the product;
- ✓ Failure phenomenon (as detailed as possible);
- ✓ The process before and after the fault.



Warning



1. Do not block the vent.
2. If the power cord is damaged, stop using it immediately.
3. It should not be placed in the following places: poor ventilation; dusty; direct sunlight; high ambient temperature or close to heat sources; subject to vibration.
4. It is required to be protected from rain and moisture.
5. It cannot be placed in a container that can be filled with liquid.
6. The housing is required to be safely grounded.
7. The power plug and socket are required to be compatible.
8. Please do not open the housing cover by yourself to avoid electric shock. When it fails, please contact the supplier or the manufacturer for maintenance services, or you can entrust professionals in professional departments with professional certificates. Non-professionals are forbidden to disassemble the machine by themselves, otherwise electric shock may endanger their life.

Specifications and parameters are subject to change without notice